

## Product datasheet for MR225798

### Sgk1 (NM\_001161848) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sgk1 (NM\_001161848) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Sgk1  
**Synonyms:** Sg; Sgk  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR225798 representing NM\_001161848  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAACAGAGAAGGATGGGCCTGAACGATTTTATTCAGAAGATTGCCAGCAACACCTATGCATGCAAAC  
ACGCTGAAGTTCAGTCCATTTTAAAAATGTCCATCCTCAGGAGCCGGAGCTTATGAACGCTAACCCCTC  
TCCTCCGCCAAGTCCCTCTCAACAAATCAACCTGGGTCCGTCTCCAACCCTCACGCCAAACCCTCCGAC  
TTTCACCTCTTCAAAGTGATCGGAAAGGGCAGTTTTGAAAGGTTCTTCTGGCTAGGCACAAGGCAGAAG  
AAGTATTCATGCAGTCAAAGTTTTACAGAAGAAAGCCATCCTGAAGAAGAAAGAGGAGAAGCATATTAT  
GTCAGAGCGGAATGTTCTGTTGAAGATGTGAAGCACCCCTTTCCTGGTGGCCTTCACTTCTCATTCCAG  
ACCGCTGACAAGCTCTACTTTGCTGGACTACATTAATGGTGGAGAGCTGTTCTACCATCTCCAGAGGG  
AGCGCTGCTTCTGGAACCACGGGCTCGATTCTACGCAGCTGAAATAGCCAGTGCCTGGGCTATCTGCA  
CTCCCTAAACATCGTTTATAGAGACTTAAAACCTGAGAATATTCTCCTAGACTCCCAGGGGCACATCGTC  
CTCACTGACTTTGGGCTCTGCAAAGAGAATATTGAGCATAACGGGACAACATCTACCTTCTGTGGCACGC  
CTGAGTATCTGGCTCCTGAGGTCTCCATAAGCAGCCGATGACCGGACGGTGGATGGTGTCTTGG  
GGCTGTCCTGTATGAGATGCTCTACGGCCTGCCCCGTTTTATAGCCGGAACACGGCTGAGATGTACGAC  
AATATTCTGAACAAGCCTCTCCAGTTGAAACCAATATTACAAACTCGGCAAGGCACCTCTGGAAGGCC  
TCCTGCAGAAGGACCGACCAAGAGGCTGGGTGCCAAGGATGACTTTATGGAGATTAAGAGTCATATTTT  
CTTCTCTTTAATTAAGTGGGATGATCTCATCAATAAGAAGATTACACCCCATTTAACCCAAATGTGAGT  
GGGCCAGTGACCTTCGGCACTTCGATCCCGAGTTTACCGAGGAGCCGGTCCCAGCTCCATCGGCAGGT  
CCCCTGACAGCATCCTTGTACGGCCAGTGTGAAGGAAGCAGCAGAAGCCTTCTCGGCTTCTCCTATGC  
ACCTCCTGTGGATCCTTCTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR225798 representing NM\_001161848  
 Red=Cloning site Green=Tags(s)

MKQRRMGLNDFIQKIASNTYACKHAEVQSIKMSHPQPELMNANPSPPPSPSQQINLGPSSNP<sup>HA</sup>KPSD  
 FHF<sup>LV</sup>LKVI<sup>IG</sup>KG<sup>SF</sup>GK<sup>VLL</sup>AR<sup>HKA</sup>EEV<sup>FYA</sup>VK<sup>VL</sup>QK<sup>KAIL</sup>KK<sup>KEEK</sup>HIM<sup>SERN</sup>VLLK<sup>NV</sup>KHP<sup>FL</sup>VGL<sup>HFS</sup>FQ  
 TAD<sup>KL</sup>YF<sup>VD</sup>YING<sup>GEL</sup>FY<sup>HL</sup>QR<sup>ERC</sup>FL<sup>EP</sup>RAR<sup>FYAA</sup>EIAS<sup>AL</sup>GY<sup>LH</sup>SL<sup>NIV</sup>YR<sup>DL</sup>KPEN<sup>ILL</sup>DS<sup>QGH</sup>IV  
 LTDF<sup>GL</sup>CKEN<sup>IEH</sup>NG<sup>TT</sup>ST<sup>FC</sup>GT<sup>PE</sup>YL<sup>AP</sup>EV<sup>LHK</sup>Q<sup>PY</sup>DR<sup>TVD</sup>W<sup>WCL</sup>GAV<sup>LYE</sup>ML<sup>YGL</sup>PP<sup>FYS</sup>RNT<sup>AEM</sup>YD  
 NIL<sup>NK</sup>PL<sup>QL</sup>KPN<sup>IT</sup>SAR<sup>HLL</sup>EGL<sup>LQ</sup>KDR<sup>TK</sup>RL<sup>GAK</sup>DD<sup>FME</sup>IK<sup>SHI</sup>FF<sup>SLI</sup>NW<sup>DDL</sup>INK<sup>KIT</sup>PP<sup>FN</sup>P<sup>NVS</sup>  
 GPS<sup>DLR</sup>H<sup>FD</sup>PE<sup>FTE</sup>EP<sup>VP</sup>SS<sup>IG</sup>RS<sup>PDS</sup>IL<sup>VTA</sup>SV<sup>KEA</sup>EAF<sup>LGF</sup>SY<sup>APP</sup>V<sup>DS</sup>FL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

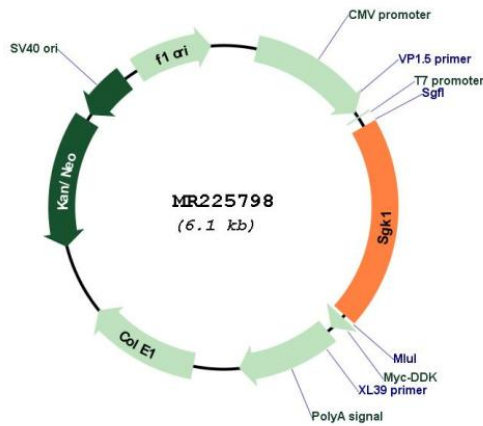
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001161848

<b>ORF Size:</b>	1212 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001161848.2</a> , <a href="#">NP_001155320.1</a>
<b>RefSeq Size:</b>	2415 bp
<b>RefSeq ORF:</b>	1215 bp
<b>Locus ID:</b>	20393
<b>UniProt ID:</b>	<a href="#">Q9WVC6</a>
<b>Cytogenetics:</b>	10 A3
<b>MW:</b>	46.4 kDa
<b>Gene Summary:</b>	This gene encodes a serine/threonine protein kinase that plays an important role in cellular stress response. This kinase activates certain potassium, sodium, and chloride channels, suggesting an involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion. This enzyme is activated by protein phosphorylation and degraded via the ubiquitination and proteasome pathway. Multiple transcript variants encoding different isoforms have been found for this gene. A pseudogene of this gene was identified on chromosome 12. [provided by RefSeq, Sep 2009]